

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647161

Luminaire Tested: **GALN-SA9C-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40842.8 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

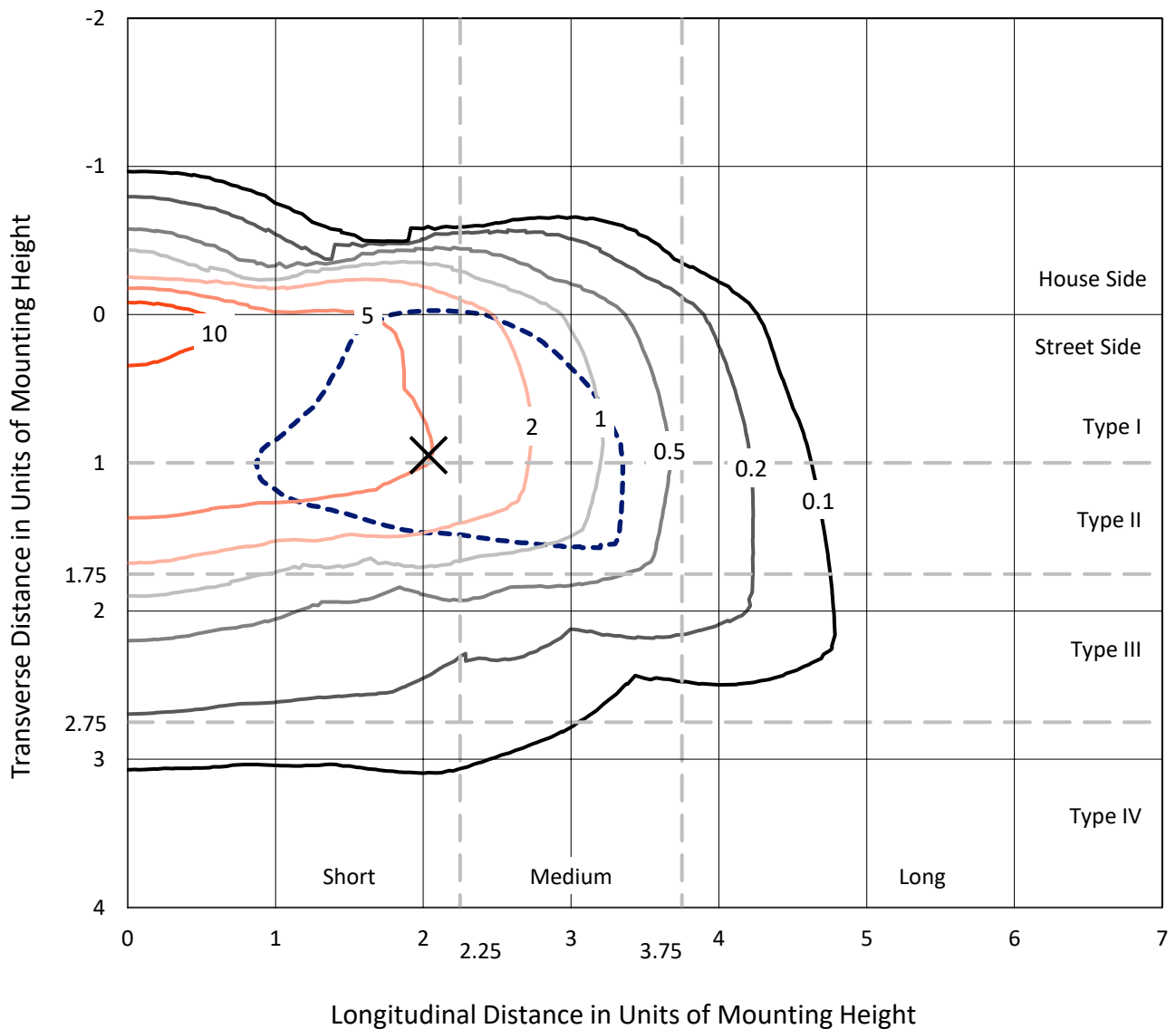
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647161
 CATALOG NUMBER: GALN-SA9C-835-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

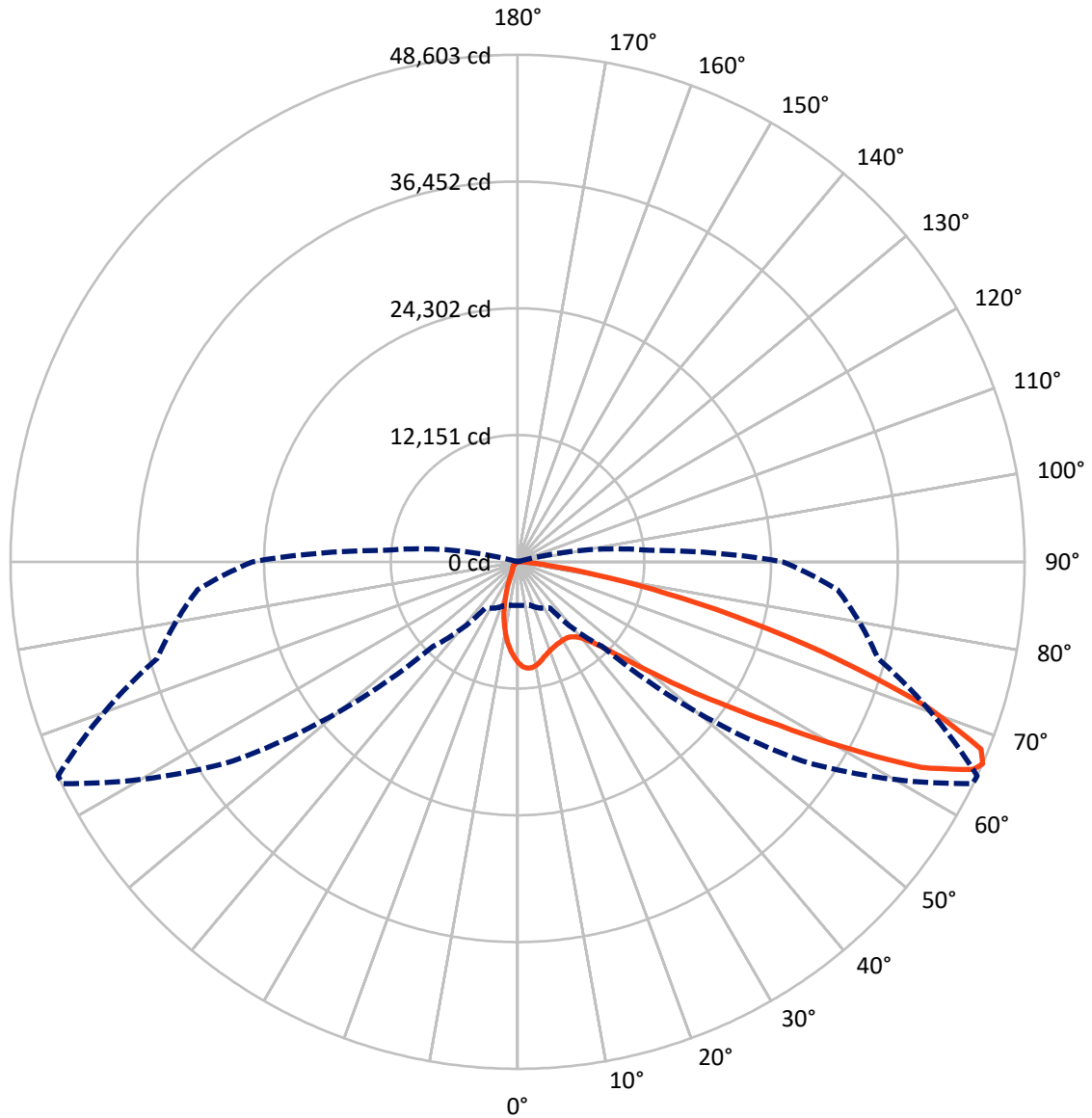
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

REPORT NUMBER: P647161
CATALOG NUMBER: GALN-SA9C-835-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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 CATALOG NUMBER: GALN-SA9C-835-U-SL2-HSS

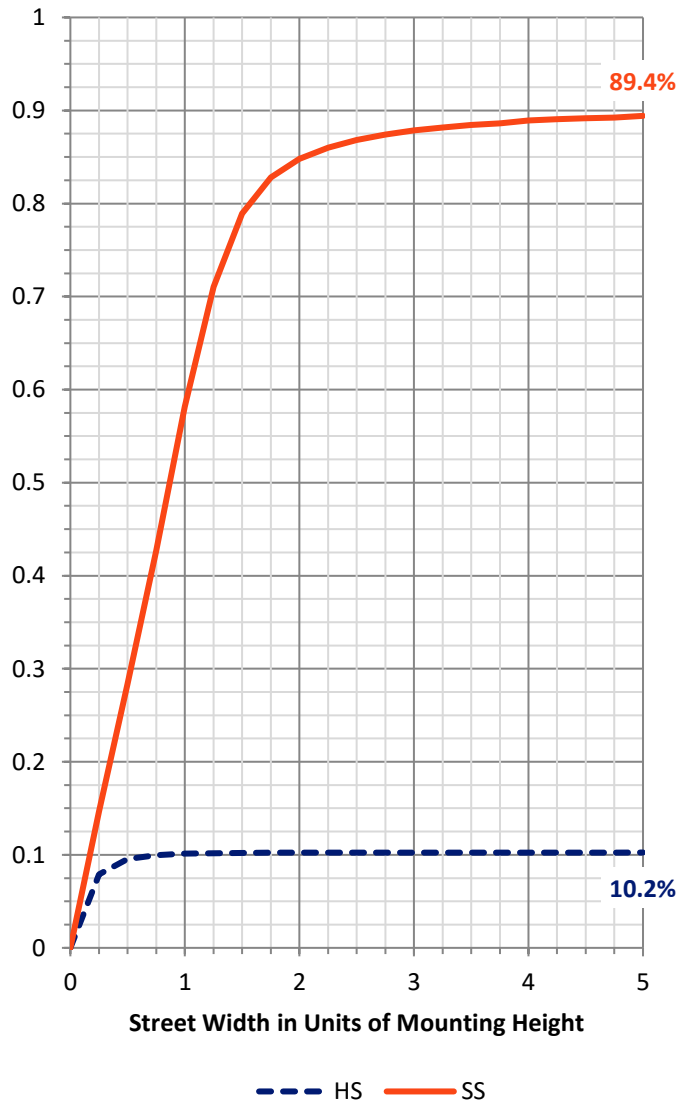
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4223.7	0.0	4223.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	36619.1	0.0	36619.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	40842.8	0.0	40842.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.1	1.9
10°-20°	1725.9	4.2
20°-30°	2472.4	6.1
30°-40°	3611.1	8.8
40°-50°	6055.1	14.8
50°-60°	10105.1	24.7
60°-70°	10726.2	26.3
70°-80°	4857.9	11.9
80°-90°	497.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	40842.8	100.0
0°-180°	40842.8	100.0

Coefficient of Utilization



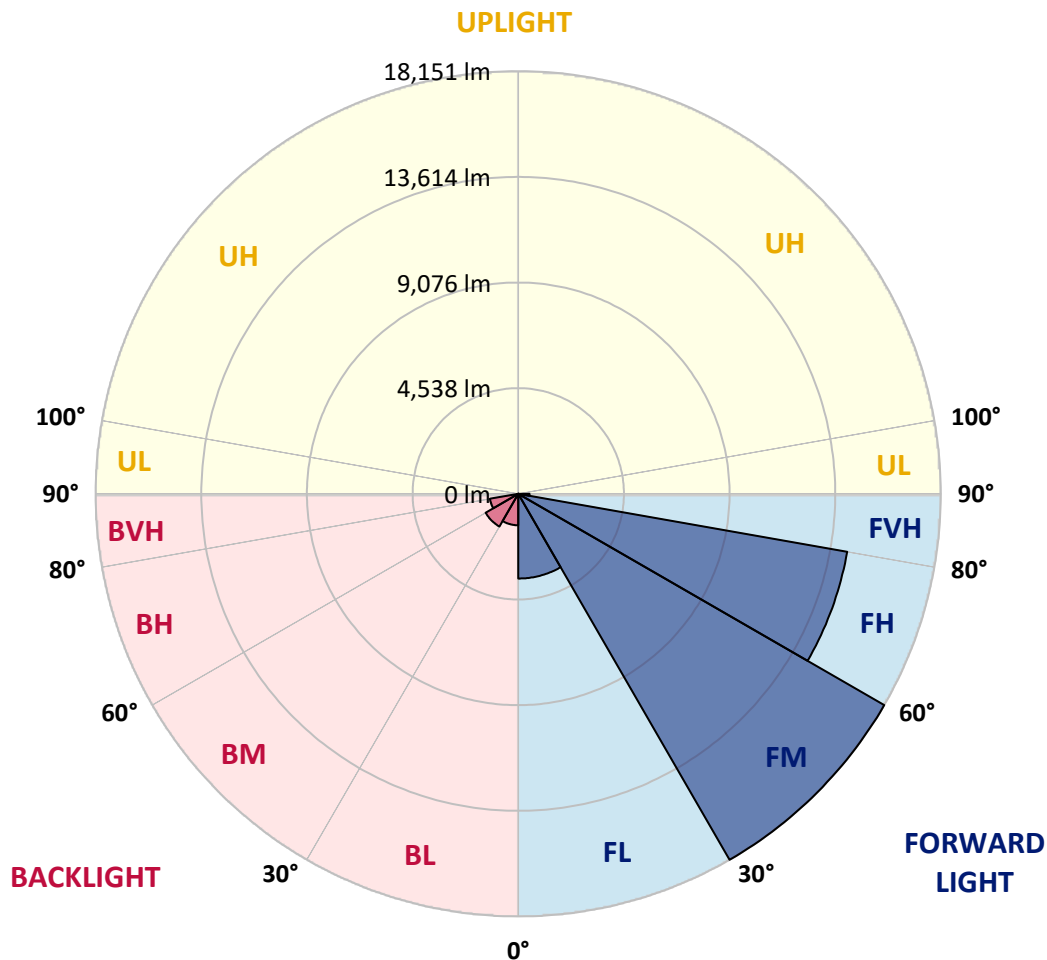
REPORT NUMBER: P647161
 CATALOG NUMBER: GALN-SA9C-835-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3639.2	8.9			
FM (30°-60°)	18151.5	44.4			
FH (60°-80°)	14347.2	35.1			G5
FVH (80°-90°)	481.2	1.2			G3/500
BL (0°-30°)	1351.1	3.3	B3/2500		
BM (30°-60°)	1619.8	4.0	B2/2500		
BH (60°-80°)	1236.9	3.0	B3/2500		G3/2500
BVH (80°-90°)	15.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





REPORT NUMBER: P647161

CATALOG NUMBER: GALN-SA9C-835-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3
2.5°	10206.7	10217.8	10231.5	10250.9	10264.7	10223.2	10165.3	10099.1	10085.4	9944.6	9773.6
5°	9660.5	9677.1	9798.5	9864.6	10013.6	10148.8	10234.3	10245.3	10239.8	10107.4	9834.3
7.5°	8882.6	8929.5	9048.1	9164.0	9442.6	9699.1	10002.6	10215.0	10228.8	10192.9	9853.6
10°	8250.9	8281.2	8341.9	8570.9	8802.6	9194.3	9619.2	10019.1	10052.2	10195.7	9837.1
12.5°	7757.1	7801.3	7875.7	8052.3	8330.9	8700.5	9183.3	9721.2	9790.2	10143.3	9790.2
15°	7412.3	7434.4	7508.8	7682.6	7952.9	8295.0	8783.3	9409.5	9470.2	10074.3	9781.9
17.5°	7249.6	7274.4	7326.8	7464.7	7688.1	8005.4	8482.6	9158.4	9235.7	10030.2	9812.2
20°	7293.6	7315.7	7318.5	7390.2	7541.9	7809.5	8261.9	8924.0	9023.3	10002.6	9861.9
22.5°	7544.7	7547.4	7514.4	7481.3	7533.6	7726.7	8126.8	8775.0	8877.1	9997.0	9919.8
25°	7919.9	7928.1	7873.0	7757.1	7652.3	7751.6	8096.4	8678.5	8769.5	9983.2	9955.7
27.5°	8438.5	8435.7	8419.1	8226.0	7928.1	7861.9	8121.2	8626.1	8703.3	9944.6	9969.5
30°	9164.0	9141.9	9106.1	8888.1	8433.0	8129.5	8226.0	8593.0	8664.7	9889.4	9933.6
32.5°	9878.4	9961.2	9955.7	9748.8	9180.5	8606.7	8444.0	8637.1	8689.5	9853.6	9881.2
35°	10711.5	10708.8	10921.2	10843.9	10179.2	9216.4	8816.4	8783.3	8824.6	9878.4	9856.4
37.5°	11483.9	11555.7	11886.7	11966.7	11359.8	10077.1	9343.3	9097.8	9111.5	10046.8	9917.1
40°	12446.6	12584.6	13078.4	13346.0	12810.8	11354.3	10121.2	9674.3	9677.1	10460.5	10146.0
42.5°	13688.0	13905.9	14366.6	14813.5	14526.6	12865.9	11288.0	10587.4	10581.9	11188.8	10670.2
45°	15196.9	15348.7	15872.8	16581.7	16399.7	14976.3	12987.4	12002.5	11930.8	12383.2	11599.8
47.5°	16499.0	16705.9	17238.3	18046.6	18874.1	17552.8	15017.6	13947.3	13900.4	14283.9	13194.3
50°	17067.3	17249.3	17809.3	18943.1	20948.6	20934.8	18041.0	16785.9	16705.9	16912.8	15660.4
52.5°	16443.9	16614.9	17180.4	18592.8	21925.1	25056.1	22421.7	20347.2	20250.7	19985.8	18606.6
55°	14308.7	14449.4	15285.3	16907.3	21550.0	27803.6	28457.4	24747.2	24372.0	23343.0	21941.7
57.5°	11392.9	11321.2	11839.8	13723.9	19348.6	28725.0	34653.2	30228.4	29558.1	26245.1	24763.7
60°	7895.1	8115.7	8325.4	9566.7	14548.7	27127.8	38506.9	37119.4	36236.6	29100.2	27467.1
62.5°	5804.1	5950.3	6088.1	6661.9	9147.4	21660.3	39188.3	44197.8	43414.4	32131.8	30046.4
65°	4590.3	4601.3	4656.5	5222.0	6027.5	14085.2	35913.9	48189.5	47988.1	35050.4	31091.8
66°	4182.0	4184.7	4270.2	4877.2	5409.6	11470.2	33290.4	48492.9	48603.2	35751.1	30785.7
67.5°	3655.1	3644.1	3768.2	4383.4	4926.8	8270.2	28595.3	47262.6	47916.4	36289.0	29685.0
70°	2833.1	2819.3	2971.0	3677.2	4537.9	5517.2	19006.5	40581.3	41635.1	35188.3	26264.3
72.5°	1886.9	1897.9	2157.2	2902.0	4330.9	4857.8	11434.3	30871.2	32360.8	29058.8	20661.7
75°	1100.7	1120.0	1415.1	2157.2	3760.0	4631.7	6471.6	22013.4	22965.1	20065.9	12871.5
77.5°	576.5	584.8	791.7	1423.4	2882.7	4300.6	4311.7	14063.2	14510.1	9751.6	5095.1
80°	306.2	297.9	424.9	857.9	1983.4	3776.5	3497.9	7445.4	7740.6	2896.5	1288.3
82.5°	115.9	126.9	226.2	562.7	1172.4	2711.7	3012.4	3290.9	3188.9	637.2	540.7
85°	22.1	27.6	96.5	333.8	590.3	1133.8	2220.7	1613.8	1495.1	240.0	311.7
87.5°	2.7	5.5	27.6	80.0	85.5	383.4	656.5	446.9	386.2	88.2	129.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3	9685.3
2.5°	9690.9	9616.4	9368.1	9122.6	8871.5	8645.3	8490.9	8239.8	8176.4	8085.3	8033.0
5°	9671.5	9497.8	9020.6	8499.2	8013.6	7489.6	7089.5	6703.3	6496.5	6391.6	6353.0
7.5°	9616.4	9340.5	8595.7	7779.2	7001.3	6217.8	5536.4	5017.9	4684.1	4455.1	4300.6
10°	9506.0	9125.3	8101.9	6979.2	5804.1	4769.6	3906.2	3249.6	2742.0	2582.0	2587.5
12.5°	9392.9	8885.3	7550.2	6091.0	4634.4	3329.6	2413.8	1895.2	1652.4	1572.4	1555.8
15°	9288.1	8656.4	7009.5	5230.3	3451.0	2157.2	1555.8	1373.8	1307.5	1293.8	1291.0
17.5°	9232.9	8444.0	6433.0	4245.4	2408.2	1464.8	1246.8	1197.2	1177.9	1164.1	1158.6
20°	9186.1	8259.2	5881.3	3324.1	1646.9	1199.9	1117.2	1070.4	1037.2	1023.5	1015.2
22.5°	9153.0	8068.8	5310.2	2573.7	1260.6	1064.8	990.3	929.7	882.8	866.2	855.2
25°	9103.3	7859.2	4733.7	1881.3	1062.1	946.2	860.7	789.0	728.3	697.9	692.4
27.5°	9031.6	7622.0	4102.0	1393.1	948.9	841.3	736.6	648.2	587.6	554.4	557.3
30°	8915.7	7373.7	3470.3	1106.2	857.9	733.7	620.7	535.2	477.2	452.4	449.7
32.5°	8777.7	7073.0	2891.0	948.9	775.2	637.2	518.6	444.1	400.0	380.7	378.0
35°	8648.2	6769.5	2300.6	852.4	689.7	549.0	435.8	372.4	339.3	322.8	325.5
37.5°	8576.4	6499.2	1793.1	775.2	620.7	471.7	375.1	320.0	289.6	275.9	273.1
40°	8623.3	6278.5	1426.2	706.2	543.4	405.5	322.8	275.9	245.5	226.2	226.2
42.5°	8844.0	6181.9	1150.3	640.0	471.7	350.3	281.4	237.2	204.1	184.8	187.6
45°	9517.1	6284.0	962.8	579.3	405.5	303.4	242.7	195.8	165.5	151.7	148.9
47.5°	10634.3	6667.5	833.1	515.8	347.6	259.3	204.1	162.8	132.4	121.4	118.6
50°	12587.4	7459.2	736.6	452.4	295.2	220.6	168.3	129.7	104.8	93.8	93.8
52.5°	15274.2	9186.1	667.6	380.7	248.3	187.6	138.0	104.8	82.8	74.5	71.7
55°	18082.4	11006.7	631.7	320.0	206.9	154.5	110.3	82.8	63.4	55.2	52.4
57.5°	20783.1	12435.6	590.3	259.3	165.5	118.6	85.5	63.4	44.2	38.6	35.9
60°	23373.4	13591.5	502.1	206.9	129.7	85.5	63.4	44.2	30.4	24.8	24.8
62.5°	25690.5	14264.5	394.5	165.5	99.3	60.7	41.3	33.1	22.1	16.5	16.5
65°	25960.9	13390.1	297.9	126.9	71.7	38.6	24.8	24.8	16.5	11.0	11.0
66°	25417.5	12648.0	262.1	115.9	63.4	33.1	22.1	19.3	13.8	8.3	8.3
67.5°	24203.7	11381.8	226.2	99.3	52.4	24.8	16.5	16.5	11.0	5.5	5.5
70°	20912.8	9296.4	179.3	74.5	38.6	19.3	11.0	11.0	8.3	5.5	5.5
72.5°	15939.1	6940.6	146.2	55.2	27.6	13.8	8.3	8.3	8.3	5.5	5.5
75°	9613.6	3737.9	113.1	41.3	24.8	11.0	5.5	8.3	11.0	8.3	5.5
77.5°	3542.0	1271.7	88.2	33.1	19.3	11.0	5.5	5.5	11.0	8.3	8.3
80°	869.0	331.1	63.4	27.6	19.3	11.0	5.5	5.5	11.0	11.0	11.0
82.5°	402.8	140.7	44.2	24.8	19.3	11.0	5.5	5.5	8.3	11.0	11.0
85°	231.7	66.2	35.9	27.6	19.3	11.0	5.5	5.5	8.3	11.0	11.0
87.5°	93.8	33.1	33.1	27.6	22.1	13.8	5.5	5.5	5.5	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)